

JQX-116F-1**MINIATURE HIGH POWER RELAY**

File No.:E134517



File No.:R50031086



File No.:CQC02001001945

**Features**

- 30 A switching capabilities
- SPST and DPST configurations
- 4KV dielectric strength coil to contacts
- Heavy load up to 7500VA
- Class F insulation
- 3mm contact gap available

CONTACT DATA

Contact Arrangement	1A	2A
Initial Contact Resistance Max.	100mΩ (at1A 24VDC)	
Contact Material		Silver Alloy
Contact Rating (Res. Load)	30A 250VAC 30A 28VDC	25A 250VAC 25A 28VDC
Max. switching voltage		277VAC/28VDC
Max. switching current	30A	25A
Max. switching power	7500VA/840W	6250VA/700W
Mechanical life		1×10^7 OPS
Electrical life		1×10^5 OPS

COIL DATA

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Coil Resistance Ω
3	2.25	0.3	$4.7 \pm 10\%$
6	4.50	0.6	$18.8 \pm 10\%$
12	9.00	1.2	$75 \pm 10\%$
24	18.0	2.4	$300 \pm 10\%$
48	36.0	4.8	$1200 \pm 10\%$
100	75.0	10.0	$5200 \pm 10\%$
110	82.5	12.0	$6300 \pm 10\%$
200	150	20.0	$21000 \pm 10\%$

CHARACTERISTICS

Initial Insulation Resistance	1000MΩ 500VDC
Dielectric Strength	Between coil and Contacts 4000VAC 1min. Between open contacts 2000VAC 1min.
Operate time (at nomi. Volt.)	Max. 30ms
Release time (at nomi. Volt.)	Max. 30ms
Shock Resistance	Functional 98 m/s ² Destructive 980 m/s ²
Vibration Resistance	DA: 1.5mm, 10 to 55Hz
Ambient temperature	-55°C to +70°C
Humidity	98%, +40°C
Termination	PCB & QC, Screw
Unit weight	Approx. 120g
Construction	Dust Cover

COIL

Coil power	DC:1.9W AC:2.7VA
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SAFETY APPROVAL RATINGS

UL	AgSnO ₂	30A 277VAC
		1.5HP 120VAC,3HP 240VAC 10A 120VAC
TÜV	AgCdO	30A 277VAC
		1.5HP 120VAC,3HP 240VAC 10A 120VAC Tungsten TV-10 120VAC
		27A 240VAC cos phi=0.8
		25A 240VAC cos phi=0.4
		25A 240VAC cos phi=1



HONGFA RELAY

ISO9001、ISO/TS16949、ISO14001 CERTIFIED

VERSION: EN02-20040601

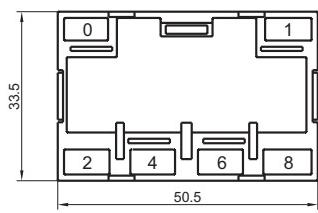
ORDERING INFORMATION

	JQX-116F-1	/	018	D	A	1H	T	F	W	C
Type										
Coil voltage DC: 3 to 200VDC AC: 6 to 220VAC										
Coil input D: DC A: AC										
Mounting A: Mount P: PCB F: Flanged										
Contact arrangement 1H: 1 Form A 2H: 2 Form A										
Contact Material T: AgSnO ₂ Nil: AgCdO										
Insulation System Nil: Class B F: Class F										
Contact Gap W: 3.0mm Nil: Standard Gap										
Capacitor C: With Capacitor(for AC only) Nil: Without Capacitor										

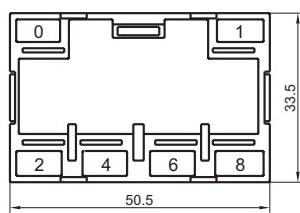
OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Outline dimensions

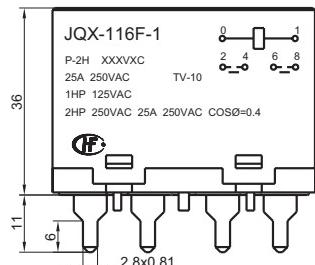
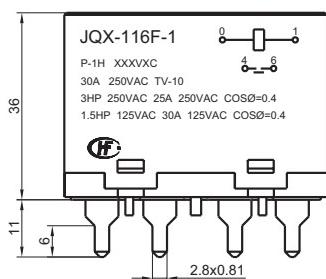
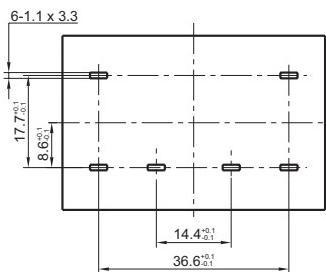
JQX-116F-1/□□□-□-P-1H-□



JQX-116F-1/□□□-□-P-2H-□



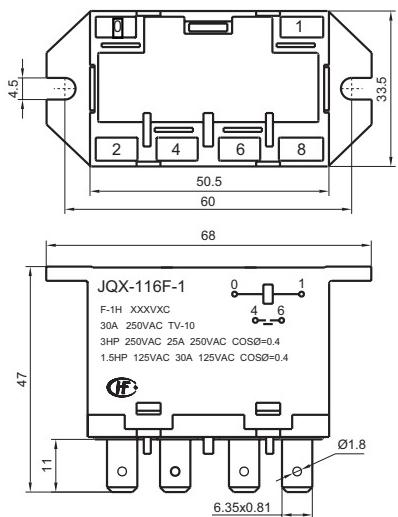
PCB Layout



OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

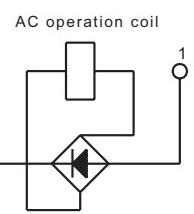
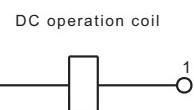
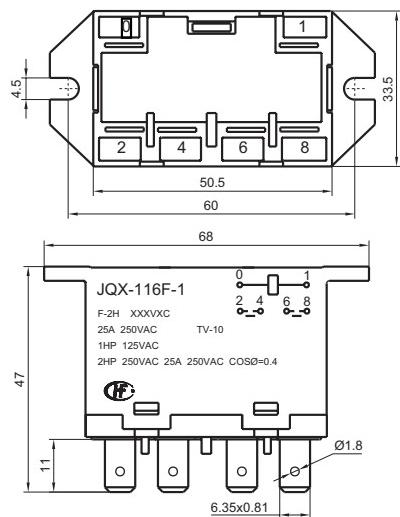
Outline Dimensions

JQX-116F-1/□□□-□-F-1H-□

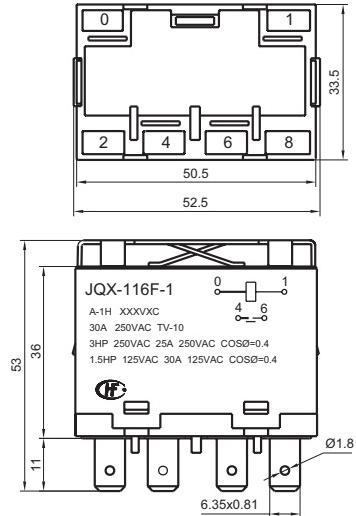


Wiring Diagram

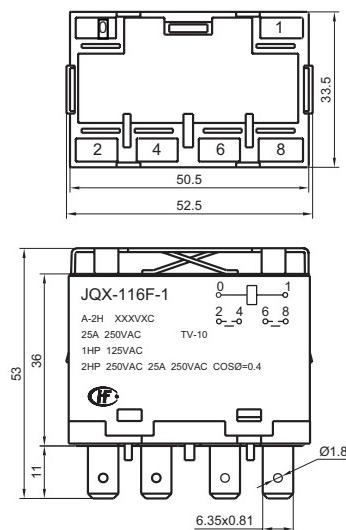
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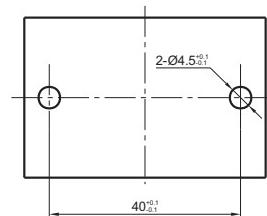
JQX-116F-1/□□□-□-A-1H-□



JQX-116F-1/□□□-□-A-2H-□

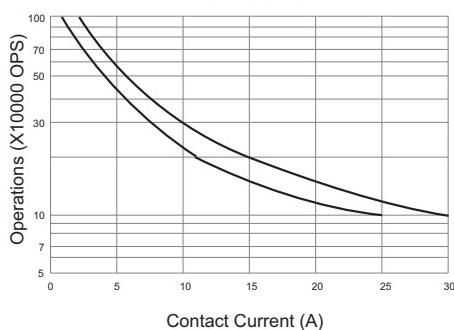


Mounting holes

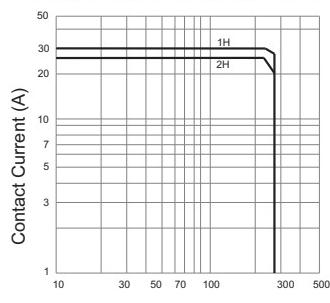


CHARACTERISTICS CURVE

LIFE CURVE



MAXIMUM SWITCHING POWER



COIL TEMPERATURE RISE

